| <br> | of Clai |  |
|------|---------|--|
|      |         |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|-----------------------------------------|
| 10/630,847              | KAWAI ET AL.                            |
| Examiner                | Art Unit                                |
| Brian J. Sines          | 1743                                    |

| / | Rejected | _ | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| Г | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

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|----------|----------|----------|---------------|---------------|----------|----------|---------------|---------------|----------|----------------|---|-------------|
|          |          | 18       | <u>.</u>      |               |          |          |               |               |          | _              |   |             |
| Cla      | im       | 8        | 8             |               | [        | Date     | <u> </u>      |               | _        |                | · | С           |
|          | = \      | 15       | 0             |               |          |          |               |               | ļ        |                | ļ |             |
| Final    | Original | 3        | 180           |               | 1        |          |               |               |          | 1              |   | Final       |
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|          | 1        | V        | Y             | _             |          |          |               |               |          |                | l |             |
|          |          |          | b             |               | Н        | П        |               | $\overline{}$ |          | _              |   | _           |
|          | 3        | ソレ       | V             | _             | H        | Н        | $\overline{}$ | Н             | $\neg$   | $\neg$         | 1 |             |
| $\vdash$ | 4        | V        | Ū             |               | Н        |          |               | $\vdash$      | -        |                | ı |             |
| -        | 5        | U        | Ċ             | -             | Н        |          |               |               | -        |                |   |             |
| $\vdash$ | 6        | V        | 1             | _             | $\vdash$ |          |               | $\vdash$      | $\dashv$ | -              |   | _           |
| 1        | 7        | 5        | داد           | -             | Н        |          |               |               | $\dashv$ | -              |   |             |
| $\vdash$ |          |          | ٦             |               | Н        | Н        | _             |               | _        | -              |   |             |
| $\vdash$ | 8        | Y        | ۲             |               | Н        | _        | -             | -             | -        |                |   | _           |
| $\perp$  | 9        | -        | 4             | <u> </u>      | Н        | _        | _             | -             | -        | _              |   | _           |
| <u> </u> | 10       | Y        | 0             | Ь_            | Ш        |          | Н             |               |          | _              | ' |             |
| <u> </u> | 11       |          |               |               | ш        |          | _             |               | Ш        |                |   |             |
|          | 12       | <u> </u> | 7             |               | Ш        |          |               |               |          | Ш              |   |             |
|          | 13       | 2        |               |               | _        | _        |               |               |          |                |   |             |
|          | 14       | <u></u>  | L             | _             |          |          |               |               |          |                |   |             |
|          | 15       | レ        | Ţ             |               |          |          |               |               |          |                |   | L           |
|          | 16       | 1        | L             | Ŀ             |          |          |               |               |          |                |   |             |
|          | 17       | L        | Ū             | Ĺ             |          |          |               |               |          |                |   |             |
|          | 18       | 1        | 7             |               |          |          |               |               |          |                |   |             |
|          | 19       | V        |               | Г             |          |          |               |               |          |                |   |             |
|          | 20       | 2        | L             | $\overline{}$ |          |          |               |               |          |                |   |             |
|          | 21       | V        | L             | F             |          |          |               |               |          |                |   |             |
|          | 22       | V        | v             |               |          |          |               |               |          |                |   |             |
|          | 23       | <u> </u> | -             |               |          |          |               |               | П        |                |   |             |
|          | 24       | <u> </u> | <del> </del>  | Т             |          |          |               | Т             |          |                |   |             |
|          | 25       | T        | $\vdash$      |               | Г        | т        |               |               |          | _              |   |             |
| <b>—</b> | 26       | $\vdash$ | 1             |               |          |          |               |               | _        |                |   |             |
|          | 27       | $\vdash$ | ┢             | $\vdash$      | i -      | Н        | Н             |               | -        | -              |   |             |
|          | 28       | H        | $\vdash$      | H             | H        | $\vdash$ | Н             | Н             | Н        | -              |   | $\vdash$    |
| -        | 29       | ┢        | ┝             | ⊢             | H        | -        | Η.            | $\vdash$      | H        |                |   | _           |
| -        | 30       | ├        | ┝             | -             | -        | -        | ⊢             | ┝             | ⊢        |                |   | _           |
| -        | 31       | ╁        | ⊢             | ┢             | $\vdash$ | $\vdash$ | ⊢             | $\vdash$      | $\vdash$ | <del>  -</del> |   | _           |
|          | 32       | $\vdash$ | $\vdash$      | -             | $\vdash$ | H        | -             | $\vdash$      | $\vdash$ | $\vdash$       |   | <del></del> |
| -        | 32       | ⊢        | -             |               | $\vdash$ | $\vdash$ | <u> </u>      | -             | -        | -              |   | $\vdash$    |
|          | 33       | -        | -             | ├             | ├        |          |               | H             |          | -              |   | <del></del> |
|          | 34       | ├-       | -             | ⊢             | ├        | $\vdash$ | ⊢             | ⊢             | -        | <u> </u>       |   | <b>-</b>    |
|          | 35       | ┢        |               | ⊢             | $\vdash$ |          | <u> </u>      | ⊢             | -        | <u> </u>       |   | _           |
| <b> </b> | 36       | -        | $\vdash$      | ⊢             | H        | $\vdash$ | <u> </u>      | $\vdash$      | $\vdash$ | <u> </u>       |   | Ь.          |
| <u></u>  | 37       |          | <b>!</b>      | <b>!</b> —    | <b>—</b> | ⊢        |               | <b> </b> -    | -        | <u> </u>       |   | <u> </u>    |
| <u> </u> | 38       | -        | $\vdash$      | -             | -        |          | <u> </u>      | ├             | $\vdash$ | ⊢              |   | <u> </u>    |
| <u></u>  | 39       | -        | <u> </u>      | <b>—</b>      | -        | <b> </b> | <u> </u>      | <b>—</b>      | $\vdash$ | L              |   | <u> </u>    |
| <u></u>  | 40       | ╙        | <u> </u>      | <u> </u>      | <u> </u> | <u> </u> | <u> </u>      | ╙             | <u> </u> | <u> </u>       |   | ⊢_          |
| L        | 41       | ┞        | <u> </u>      | L_            | <u> </u> | _        | L_            | <u> </u>      | <u> </u> | <u> </u>       |   | <u> </u>    |
| <u></u>  | 42       | <u> </u> | 匚             | <u> </u>      | _        | oxdot    | L_            | ╙             | <u> </u> | <u> </u>       |   | <u> </u>    |
|          | 43       |          | L             |               |          |          | L             | L             | L        | L_             |   | Ц_          |
|          | 44       |          |               |               |          |          | Ĺ             | L             | L        |                |   |             |
|          | 45       |          |               |               |          |          |               |               |          |                |   |             |
|          | 46       |          |               |               |          |          |               |               |          |                |   | L           |
|          | 47       |          |               |               |          |          |               |               |          |                |   |             |
|          | 48       |          |               |               |          |          | ·             |               |          |                |   |             |
|          | 49       | Т        | Г             |               |          |          |               |               |          |                |   |             |
| $\vdash$ | 50       |          | $\overline{}$ | $\vdash$      | г        |          | $\vdash$      | $\vdash$      | Т        | $\overline{}$  |   |             |

| Claim |                | Date     |          |          |             |          |                                                  |              |          |           |  |
|-------|----------------|----------|----------|----------|-------------|----------|--------------------------------------------------|--------------|----------|-----------|--|
| Final | Originat       |          |          |          |             |          |                                                  |              |          |           |  |
|       | 51             |          |          |          |             |          |                                                  |              |          | П         |  |
|       | 52             |          |          |          |             |          |                                                  |              |          | П         |  |
|       | 53             |          |          |          | _           |          |                                                  |              |          | П         |  |
|       | 54             |          |          |          |             |          |                                                  |              |          | П         |  |
|       | 55             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 55<br>56       |          |          |          |             |          |                                                  |              |          |           |  |
|       | 57             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 58             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 59             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 60             |          |          |          |             |          | _                                                |              |          |           |  |
|       | 61             |          |          |          |             |          |                                                  |              |          | $\Box$    |  |
|       | 62             |          |          |          |             |          |                                                  |              |          | Ц         |  |
|       | 63             | Ш        | Щ        |          |             |          |                                                  |              | _        | Н         |  |
|       | 64             | <b> </b> | Щ        |          | <b>-</b>    | Щ        | $\vdash$                                         |              | $\vdash$ | Ш         |  |
|       | 65             | Ш        | _        |          |             | <u> </u> |                                                  | Н            | _        | Н         |  |
|       | 66             |          | _        | _        | _           | <u> </u> | _                                                | -            |          | Н         |  |
|       | 67             |          | _        |          |             | H        | _                                                |              | $\vdash$ | Н         |  |
|       | 68<br>69       | -        | -        | _        |             | $\vdash$ |                                                  | H            | _        | Н         |  |
|       | 70             | Н        |          |          |             | $\vdash$ | _                                                | $\vdash$     | $\vdash$ | Н         |  |
|       | 70<br>71<br>72 | $\vdash$ | Н        |          | _           |          |                                                  | -            |          | Н         |  |
|       | 72             | -        |          | _        | -           | -        | Ь—                                               | Ι            | -        | $\vdash$  |  |
|       | 73             | $\vdash$ | -        | _        | <del></del> | -        | $\vdash$                                         | $\vdash$     | $\vdash$ | Н         |  |
|       | 73<br>74<br>75 | -        | -        | _        | $\vdash$    | $\vdash$ | $\vdash$                                         | $\vdash$     | _        | Н         |  |
|       | 75             | Н        |          |          | $\vdash$    | Н        | $\vdash$                                         | $\vdash$     | ·        | Н         |  |
|       | 76             | _        |          |          | $\vdash$    |          | Г                                                | Т            | _        | $\Box$    |  |
|       | 76<br>77       |          |          |          |             |          |                                                  |              |          | П         |  |
|       | 78<br>79       |          |          |          |             |          |                                                  |              |          | П         |  |
|       | 79             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 80             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 81             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 82             |          |          |          |             |          |                                                  |              |          | Ш         |  |
|       | 83             |          |          |          |             |          |                                                  |              |          | $\square$ |  |
|       | 84             | Ш        |          |          | L           |          | L                                                |              |          | Ш         |  |
|       | 85             | Ш        | ldash    | _        | L           | <b> </b> | L                                                | <b> </b>     |          | Ш         |  |
|       | 86             | L        |          |          | _           | _        | _                                                | <u> </u>     |          | Ы         |  |
|       | 87<br>88       | -        | ⊢        | $\vdash$ | ⊢           | <b>—</b> | ├-                                               | -            | ⊢        | H         |  |
|       | 89             | $\vdash$ | -        |          | ├           |          | ┝                                                | <del> </del> | ⊢        | Н         |  |
|       | 90             | -        | H        | -        | -           | ┝        | ┝                                                | -            | _        | Н         |  |
|       | 91             | $\vdash$ | ⊢        | ⊢        | $\vdash$    | ├─       | ┝                                                | $\vdash$     | $\vdash$ | Н         |  |
|       | 92             | $\vdash$ | -        | $\vdash$ | $\vdash$    | ├        | -                                                | $\vdash$     | -        | Н         |  |
|       | 93             | $\vdash$ | $\vdash$ | $\vdash$ | -           | $\vdash$ | $\vdash$                                         | -            | -        | Н         |  |
|       | 94             | Н        | $\vdash$ | $\vdash$ | $\vdash$    | $\vdash$ | <del>                                     </del> | -            | Т        | H         |  |
|       | 95             | $\vdash$ |          | -        | $\vdash$    | ┢        | <del>                                     </del> | $\vdash$     | Т        | Н         |  |
|       | 96             | $\vdash$ | П        | Г        | 1           | Ι_       |                                                  |              |          | М         |  |
|       | 97             |          |          | -        |             |          |                                                  |              |          | П         |  |
|       | 98             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 99             |          |          |          |             |          |                                                  |              |          |           |  |
|       | 100            |          |          |          |             | Г        |                                                  | Г            |          |           |  |

| Claim           |            | Date         |          |                |              |          |              |          |                |          |  |
|-----------------|------------|--------------|----------|----------------|--------------|----------|--------------|----------|----------------|----------|--|
| Final           | Original   |              |          |                |              |          |              |          |                |          |  |
|                 | 101        |              |          |                |              |          |              |          |                |          |  |
|                 | 102        |              |          |                |              |          |              | _        | Н              |          |  |
|                 | 103        | Ш            |          |                |              | -        |              |          |                | Н        |  |
|                 | 104        | _            |          | H              | -            |          |              | _        | щ              | $\dashv$ |  |
|                 | 105<br>106 | -            | -        | $\vdash$       | -            |          |              | -        |                | Н        |  |
|                 | 107        | -            |          |                | Н            | -        |              | _        | Н              | Н        |  |
|                 | 108        |              |          | $\vdash$       | -            |          | -            | $\vdash$ | -              | Н        |  |
|                 | 109        |              |          | $\vdash$       | $\vdash$     | -        |              |          |                | Н        |  |
|                 | 110        | _            |          |                |              |          |              |          |                | $\Box$   |  |
|                 | 111        |              |          |                |              |          |              |          |                |          |  |
|                 | 112        |              |          | $\Box$         |              |          |              |          | Ĺ              |          |  |
|                 | 113        |              | _        | <u> </u>       | Ŀ            | _        |              |          | _              | Ш        |  |
|                 | 114        | <u> </u>     | oxdot    | <u> </u>       | ļ            | <u> </u> | L            | <u> </u> | <u> </u>       | Щ        |  |
|                 | 115<br>116 | -            | -        | -              | $\vdash$     | $\vdash$ | $\vdash$     | -        | -              | $\vdash$ |  |
|                 | 117        | ⊢            | $\vdash$ | ⊢              | H            | -        | $\vdash$     | ⊢        | ⊢              | Н        |  |
|                 | 118        | $\vdash$     | $\vdash$ | ┝              | $\vdash$     | $\vdash$ |              |          | ┢              | Н        |  |
| _               | 119        | -            | Н        | $\vdash$       | Н            | $\vdash$ | <del></del>  | $\vdash$ | -              | Н        |  |
| _               | 120        |              | $\vdash$ |                | Н            | _        | Н            | $\vdash$ | 一              | Н        |  |
|                 | 121        |              | Г        |                | Г            |          |              |          | Г              |          |  |
|                 | 122        |              |          |                |              |          |              |          |                |          |  |
|                 | 123        |              |          |                |              |          |              |          |                |          |  |
|                 | 124        |              | _        | _              | _            | _        | ᆫ            | L        | L              | Ш        |  |
|                 | 125        | <u> </u>     | ├—       | <u> </u>       | _            | L        | _            | <u> </u> | <u> </u>       | Н        |  |
|                 | 126<br>127 | <del> </del> | ⊢        | ⊢              | ⊢            | ┝        | -            | -        | -              | Н        |  |
|                 | 128        | ⊢            | ⊢        | ⊢              | ⊢            | ⊢        | ├            | $\vdash$ | ┢              | Н        |  |
|                 | 129        | $\vdash$     | ┢        | ⊢              | -            | ┝        | $\vdash$     | $\vdash$ | $\vdash$       | Н        |  |
|                 | 130        | $\vdash$     | ┢        | ┢              | $\vdash$     | ┢        | $\vdash$     | -        | -              | -        |  |
|                 | 131        | $\vdash$     | Н        | H              | _            |          | $\vdash$     | t        | $\vdash$       | Н        |  |
|                 | 132        |              |          |                |              |          |              |          |                | П        |  |
|                 | 133        |              |          |                |              |          |              |          |                |          |  |
|                 | 134        |              | ·        |                |              |          |              |          |                | Ц        |  |
|                 | 135        |              | _        | _              | L            |          | ╙            | <u> </u> | <u> </u>       | Ш        |  |
|                 | 136        | <u> </u>     | L        | -              | _            | <u> </u> | <b> </b> -   | <u> </u> | ▙              | Н        |  |
|                 | 137<br>138 | <del> </del> | -        | ⊢              | ⊢            | -        |              | ⊢        | <u> </u>       | -        |  |
| -               | 139        |              | ⊢        | -              | ⊢            | ⊢        | -            | -        | ┢              | Н        |  |
| _               | 140        | ┝            | ┢        | -              | $\vdash$     | Н        | $\vdash$     |          | H              | Н        |  |
|                 | 141        | Н            | <u> </u> | 1              | $\vdash$     |          | $\vdash$     | Ι-       | T              |          |  |
|                 | 142        | $\vdash$     | Г        | 1              | Ι            |          | Ι.           |          | Г              |          |  |
|                 | 143        |              |          |                |              |          | L            |          |                |          |  |
|                 | 144        |              |          |                |              |          |              |          |                |          |  |
|                 | 145        | _            | <u> </u> | <u> </u>       | <u> </u>     | <u> </u> | _            | _        | _              | Щ        |  |
|                 | 146        | <u> </u>     | $\vdash$ | <del> </del>   | ⊢            | <u> </u> | <u> </u>     | <u> </u> | ⊢              | Ш        |  |
| <del>  </del>   | 147        | -            | $\vdash$ | <del>  .</del> | <del> </del> | $\vdash$ | ⊢            | -        | ├-             | $\vdash$ |  |
| <u> </u>        | 148        | -            | $\vdash$ | <del>ا</del>   | $\vdash$     | -        | <del> </del> | ┢        | <del> </del>   | Н        |  |
| $\vdash \vdash$ | 150        | $\vdash$     | $\vdash$ | $\vdash$       | $\vdash$     | $\vdash$ | -            | ⊢        | <del> </del> — | Н        |  |
|                 | , ,,,,     |              |          | _              |              | _        |              |          |                |          |  |